37385 EBASCO

# **REM III PROGRAM**

REMEDIAL PLANNING ACTIVITIES
AT SELECTED UNCONTROLLED
HAZARDOUS SUBSTANCE DISPOSAL SITES
WITHIN EPA REGIONS I-IV



EPA CONTRACT 68-01-7250
EBASCO SERVICES INCORPORATED

EPA WORK ASSIGNMENT NUMBER: 10-26 A2.0
EPA CONTRACT NUMBER: 68-01-7250
EBASCO SERVICES INCORPORATED

HEALTH AND SAFETY PLAN RI/PS OVERSIGHT ASBESTOS DUMP MILLINGTON, NEW JERSEY

JULY, 1986

#### NOTICE

The information in this document has been funded by the United States Environmental Protection Agency (USEPA) under REM III Contract No. 68-01-7250 to Ebasco Services Incorporated (Ebasco). This document is a draft and has not been formally released by either Ebasco or the USEPA. As a draft, this document should not be cited or quoted, and is being circulated for comment only.

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> HEALTH & SAFETY PLAN RI/FS OVERSIGHT ASBESTOS DUMP MILLINGTON, NEW JERSEY

> > JULY 1986

Prepared by:

Douglas V. Herrick

Health & Safety Officer

Ebasco Services Incorporated

Approved by:

Dr sal

Bruce D. Groves

Company Health & Safety

Supervisor

Ebasco Services Incorporated

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SECTION I: APPROVALS

By their signature the undersigned certify that this Health and Safety Plan is approved and will be utilized at the National Gypsum Company, Millington, New Jersey site.

Health and Safety Officer

7-25-86 Date

Wellcam R

7/31/86

arte manager

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Company Health and Safety Supervisor

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Der R. Sachder

7/31/86

Regional Manager, Region III

Date

Druce W/Kores 105 S. Ja

5/30/8

REM III Health and Safety

Manager

# SECTION II - HEALTH AND SAFTEY PLAN

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SECTION II: GENERAL

#### 2.0 PROJECT INFORMATION

This plan has been prepared in conformance with the REM III Health and Safety Plan. It addresses all those activities associated with Remedial Investigation/Feasibility Study Oversight at the Millington Site (including Great Swamp, 651 White Bridge Road, and 237 New Vernon Road Sites) and will be implemented by the HSO during site work. Compliance with this Health and Safety Plan is required of all persons and third parties who enter this site. Any changes proposed must be reviewed by (H&S) staff and are subject to approval of the Ebasco CHSS, and the HSM.

SITE NATIONAL GYPSUM COMPANY, MILLINGTON, NJ

PLAN DATE JULY 1986

SCOPE OF WORK

Oversight of the Remedial Investigation/
Feasibility Study - Millington, Great Swamp, 237

New Vernon Road, and 651 White Bridge Road Sites
- Asbestos Contamination of Soil Water, and
Sediments

	SITE MANAGER	HEALTH AND SAFETY
NAME	W. Colvin	Douglas V. Herrick
WORK PHONE	(201) 460-6509	(201) 460-6128
EMERGENCY PHONE	(201) 906-0286	(201) 451-0117

#### 2.1 EMERGENCY PHONE NUMBERS

Passaic Township (White Bridge Road Site, New Vernon Road Site, Millington Site)

(201)	647-1800	Police Department
(201)	647-1800	Fire Department
(2011	647-1800	Rescue Service

Harding Township (Great Swamp Site)

(201) 455-0500	Police Department
(201) 455-0500	Pire Department
(201) 455-0500	Rescue Service

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# Harding Township (Great Swamp Site)

(201) 5	40-5000	Morristown Memorial Hospital
1-(800) 4	24-8802	National Response Center
(201) 5	48-8730	U.S. EPA Emergency Response Region II
1-(609) 2	92-7172	New Jersey D.E.P. Hotline
1-(800) 9	62-1253	Poison Control Center
(201) 4		CHSS - (B. Groves)
(201) 4		REM III Regional Manager -
• •		(D. Sachdev)
(201) 4	60-6220	Field Operators Header - (J. Mummaus)
(703) 5		REM III HSM - (G. Smith)
(100)		Community Relations Coordinator
		Offsite Emergency Services
		Site Command Post
		Other

# 2.2 TELEPHONE ACCESS

The nearest public or private phones will be used to summon emergency assistance/services.

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SECTION III: HEALTH AND SAFETY PERSONNEL

#### 3.0 HEALTH AND SAFETY PERSONNEL DESIGNATIONS

The following briefly describes the health and safety designations and general responsibilities which will be employed for the Millington Asbestos Dump Project. These titles are identified in the REM III H&S Plan.

#### 3.1 COMPANY HEALTH AND SAFETY SUPERVISOR

The CHSS Manager has overall responsibility for development and implementation of this HASP. He also shall approve any changes to this plan, modification of any procedures as required, or when any new activities are proposed.

The CHSS will be responsible for the development of any new company safety protocols and procedures necessary for field operations and will also be responsible for the resolution of any outstanding safety issues which arise during the conduct of site work. All health and safety-related duties and responsibilities will be assigned only to qualified individuals by the Ebasco CHSS. Authorization for personnel to perform work on-site, i.e., relative to medical exams and training, must be cleared by the CHSS.

#### 3.2 SITE HEALTH AND SAFETY OFFICER

The Hart Associates' Site Safety Officer should be present on-site during the conduct of all RI/FS activities, and will be responsible for health and safety on site.

Ebasco has assigned a Health and Safety Officer responsible for the development of the HASP and associated duties. Questions concerning health and safety may be directed to the Ebasco HSO or the Hart Associates' site safety officer as conditions warrant.

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SECTION IV: SITE HISTORY AND PHYSICAL DESCRIPTION

#### 4.0 LOCATION

Millington, New Jersey is located near the southern tip of Morris County, accessible via Route 527 off of Interstate 78. The National Gypsum Company, Millington site is on the north side of Haas Road between Division Avenue and the Passaic River. Three other locations believed to be associated disposal sites are: 1) in the Great Swamp National Wildlife Refuge in the area known as the Dietzman Tract, 2) on the Pine Valley Tree Service property at 237 New Vernon Road, Passaic Township and 3) the property at 651 White Bridge Road to Passaic Township. See Figure 1 for these locations.

#### 4.1 DESCRIPTION AND HISTORY

In 1953, National Gypsum Company (NGC) acquired the Millington property (described above) from Smith Asbestos Products, Incorporated. Between that time and 1978 NGC manufactured asbestos cement siding and shingles. On site is a waste pile of asbestos containing materials approximately 450 feet in length adjacent to the Passaic River. This pile is suspected of possibly contaminating the river and other water supplies through natural erosion of the uncovered material. In addition, NGC estimates it annually put 7.2 to 14.4 pounds of phenylmercuric acetate (a fungicide) in unlined cleaning pits located on that property between 1959 and 1972. The Millington site is now owned by TIFA, Ltd.

The Great Swamp Site is accessible to the public and is used by hikers and other visitors to the Refuge. The remaining two sites, 237 New Vernon Road and 651 White Bridge Road, are individual residences. These three sites are all believed to be dump sites for asbestos-containing wastes generated at the Millington site.

In April of 1985, the Environmental Protection Agency issued an Administrative Consent Order with National Gypsum Company to begin a remedial investigation/feasibility study of these sites. Fred C. Hart Associates, Inc. has been retained by National Gypsum Company to perform the RI/FS. Fred C. Hart Associates may hire subcontractors to perform certain operations.

Ebasco's role in this project is to provide project oversight for the EPA during RI/FS activities. This operation will require, at minimum, one Ebasco representative to monitor drilling/sampling operations and receive half portions of samples taken by Hart or its subcontractors. Additionally, Ebasco is to report to EPA any incongruities or inadequacies during these operations.

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SECTION V: HAZARD ASSESSMENT

#### 5.0 GENERAL

The greatest potential exposure at all four sites is exposure to asbestos. The primary route of exposure to asbestos is by inhalation. Potential exposure to airborne asbestos fibers will be low during water and sediment sample collection since these activities are unlikely to produce airborne particulates. There is a higher exposure potential to airborne asbestos fibers during drilling and excavating because asbestos fibers may be liberated during these operations. The use of a direct reading instrument, such as a piezobalance may be used to determine the relative particulate concentration; however, actual exposure to asbestos must be determined by N10SH-approved personnel sampling methods. Exposure to airborne asbestos can be controlled by utilizing respiratory protection and the use of water during drilling and excavating operations.

At the Millington site, it has been reported that small amounts of phenylmercuric acetate, a fungicide/herbicide, was used in unlined lagoons on the property. This compound can be highly toxic by ingestion, inhalation and skin absorption. Considering the small amount of this herbicide/fungicide used at this location, it is unlikely that there will be an airborne exposure potential to this compound. Potential exposure to this compound by ingestion or skin absorption can be controlled through the use of contamination avoidance, personal protection, and decontamination procedures.

Other hazards at this site include biological hazards such as insects, poisonous plants, and animals.

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SECTION VI: WASTE DESCRIPTION/CHARACTERIZATION

#### 6.0 GENERAL

6.1 The following information is presented in order to identify the types of materials that may be encountered at the NGC Millington Site. The detailed information on these materials was obtained from Sax, Irving, Dangerous Properties of Industrial Materials, 5th Ed., 1979, Von Nostrand Reinhold, NY, NY.

# 6.2 CERCLA HAZARD RATING DEFINITIONS

Substance	Toxicity	Ignitability	Reactivity	Persistence
Asbestos Mercury, Organic	3 3	0	0 0	3
6.3 WASTE TYPES	_		olid <u>X</u> emi-solid	Gas
6.4 CHARACTERIS	E R	orrosive xplosive adioactive ther	Flammabl Volatile Inert Toxic	
6.5 CONTAINMENT	Lake Tank	Proce Pipir	Lagoo ess Vessel ngDrum	
6.6 Description	of *Other	* found in 6.	5.	
	ry compoun operty.	d in cleaning	pits; asbest	os in pile

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SECTION VI: WASTE DESCRIPTION/CHARACTERIZATION

# 6.0 GENERAL

- 6.1 The following information is presented in order to identify the types of materials that may be encountered at the NGC Great Swamp, New Vernon Road and White Bridge Road Sites. The detailed information on these materials was obtained from Sax, Irving, <u>Dangerous Properties of Industrial Materials</u>, 5th Ed., 1979, Von Nostrand Reinhold, NY.
- 6.2 CERCLA HAZARD RATING DEFINITIONS

Substa	ance	Toxi	city 1	Ignitabi	lity	Reactivity	<u>Persistence</u>
Asbest	cos	3		0		0	3
6.3	WASTE	TYPES:	Liqui Slud		Sol	id X i-solid	Gas Other
6.4	CHARAC	CTERISTICS:	E x p Rad	rosive plosive dioactiv		Flammabl Volatile Inert Toxic	
6.5	CONTAI	NMENT:	Pit Lake _ Tank _ Tank ( Other	car x	Pond _ Proces Piping	Lagoo s Vessel Drum	n
6.6	Descri	ption of *(	Other*	found i	in 6.5.		
	6.5:	In piles or	prope	erty gro	ounds.		

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SECTION VII: TRAINING

#### 7.0 BASIC H&S TRAINING

All personnel operating at a REM III site are required to participate in a Basic Hazardous Waste H&S Training course, which must be completed before personnel are qualified to work at a site. The required training must be equivalent to the REM III 3-day H&S training. In addition, all Ebasco representatives will sign for and receive a copy of this HASP, plus have read the Hart Associates' HASP for this project.

#### 7.1 SAFETY BRIEFINGS

Project personnel should be given briefings by the Hart Associates' Site Safety Officer as needed to further assist site personnel in conducting their activities safely. A briefing should be provided when changes in work practices are implemented.

#### 7.2 FIRST AID AND CPR

The Hart Associates' Site Safety Officer should identify those individuals having this training. It is expected that a selected number of field workers will have First Aid training and several members of the field team will have CPR training.

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SECTION VIII: MEDICAL SURVEILLANCE

#### 8.0 MEDICAL SURVEILLANCE MONITORING

All persons operating at a REM III site must have obtained a medical physical examination within one year prior to reporting to the site. This comprehensive physical examination must be equivalent to the REM III examination as specified in the REM III H&S plan. This physical examination shall include tests to ensure that the person is qualified to wear respiratory protection. Also a copy of the Physician's Statement and Disclosure Agreement must be sent to the Ebasco Company Health and Safety Supervisor or his designee.

Additional medical testing may be required according to exposure results and after consultation with the CHSS, HSM and Medical Consultant. The Medical Data Sheet (Section XVI) will be completed by all on-site personnel. This form does not substitute for the medical exam requirements.

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SECTION IX: SITE ZONATION

9.0 The Hart Associates' HASP does not identify exclusion zones, contamination reduction zones, or support zones. Until such zones have been developed by Hart, Ebasco employees will assume exclusion zones to include an area 30 feet in diameter around the point of operation (i.e., the drilling rig or backhoe), or areas designated as contaminated. No Ebasco employee is to enter any exclusion zone without proper authorization, protective equipment, and a "buddy". Contamination Reduction Zones will be those areas designated in the field as decontamination areas, and the Support zone is that area beyond the other two where additional support personnel or equipment await activation. Once these zones are developed by Hart, Ebasco personnel will follow the Hart zonation.

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SECTION X: HEALTH AND SAFETY PROCEDURES

#### 10.0 GENERAL

When on-site Ebasco representatives will follow the Hart Associates' Health and Safety Plan, with certain exceptions identified in this document. At no time will Ebasco representatives enter or work in the exclusion zone alone. The "buddy system" must be in force at all times. Hart, or its subcontractors' representatives working on site will team up with the Ebasco representative. This pairing will be formally established prior to entering the exclusion zone. Any Ebasco representatives that find themselves alone in the exclusion zone are to return immediately to the decontamination area.

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SECTION XI: PERSONAL PROTECTIVE EQUIPMENT

11.0 The amount of personal protective equipment specified by Hart Associates is Level C for operations such as drilling and digging in asbestos/mercury contaminated areas. The action level adopted by Hart to downgrade to Level D is an airborne asbestos concentration of 1 fiber/cc. However, for Ebasco employees airborne concentrations must be 0.1 fibers/cc or lower to downgrade to Level D. This is one-half of the 8-hour TWA permissible exposure limit mandated in the OSHA standard for asbestos; 50 FR 22733, June 20, 1986.

11.1 Ebasco will provide its employees:

Steel Toe Boots
Full Face Aiur Purifying Respirator with HEPA Cartridges
Hard Hat
Gloves (butyl and surgical)
Protective Suit

11.2 Other operations that pose little likelihood of liberating fibers (such as water and sediment sampling) will require only Level D protection.

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SECTION XII: MONITORING/INSTRUMENTATION

12.0 Hart Associates will be performing monitoring of airborne asbestos levels in the areas of invasive operations, and these results will be used to determine their personnel's level of protection. Ebasco employees, however, will use OSHA/NIOSH Approved Method 7400, as referred to in 51 FR 22733. Monitoring will be performed in the Ebasco representative's breathing zone, with equipment that is calibrated prior to and after each day's use. It is anticipated that a minimum of five (5) personnel samples will be taken on Ebasco site personnel, by Ebasco personnel.

Fred C. Hart Associates has as part of its Site Operations Plan, provisions for monitoring the head space of split spoon samples with an organic vapor analyzer. Ebasco personnel will use the results of this sampling to monitor exposure potential to volatile organic compounds. Ebasco personnel will monitor their own breathing zone using Ebasco-owned equipment if Hart Associates fail to perform sample head space analysis. Such monitoring by Ebasco may require additional personnel.

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SECTION XIII: DECONTAMINATION

13.0 Decontamination procedures will be established and implemented by the Hart Associates' Site Safety Officer. These will be adhered to by all personnel exiting the exclusion zone, unless review by Ebasco's CHSS finds the procedures inadequate. In the case of the latter, Ebasco representatives will be notified of any revisions.

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SECTION XIV: ADDITIONAL WORK PRACTICES

14.0 Refer to H&S Officer for specific concerns for each individual site task. Do not climb over/under drums, or other obstacles and always employ buddy system. Practice contamination avoidance, on and off-site. Plan activities ahead of time, caution in regard to concurrently running activities. Also, due to the unknown nature of waste placement at the site, extreme caution should be practiced during sampling activities. Apply immediate first aid to any and all cuts, scratches, abrasions, etc. Be alert to your own physical condition. Watch your buddy for signs of fatigue, exposure, etc. No work will be conducted in the dark and without appropriate supervision. Task safety briefings will be held prior to onset of task work. Be aware of and avoid slip-trip-fall hazards.

Flora and Fauna in the study area present a minimal hazard. Be aware that snakes and poison ivy are present in the study area. Do not harrass the wildlife.

Know your Health and Safety Plan.

SECTION XV: EMERGENCY PLANS

15.0 As a result of the hazards at site, and the conditions under which operations are conducted, the possibility of an emergency situation developing is very real. An emergency plan is required to be available for us at all REM III Sites.

15.1 The Site Emergency Coordinator is:

Field Operations Leader
HSO (Alternate)

J. Mummaw
D. Herrick

The emergency coordinator shall implement the contingency plan whenever conditions at the site warrant such action. The coordinator will be responsible for assuring the evacuation, emergency treatment, emergency transport of site personnel as necessary, and notification of emergency response units and the appropriate Management staff.

#### 15.2 Evacuation

In the event of an emergency situation, such as fire, explosion, significant release of toxic gases, etc.; an air horn or other appropriate device will be sounded for approximately 10 seconds indicating the initiation of evacuation procedures. personnel in both the restricted and nonrestricted areas will evacuate and assemble near the Support Zone or other safe area as identified by the emergency plan. The location shall be upwind of the site as determined by the wind direction efficient indicator. For and safe site evacuation assessment of the emergency situation, the Emergency Coordinator will have authority to initiate proper action if outside services are required. Under no circumstances will incoming personnel or visitors be allowed to proceed into the area once the emergency signal has been given. The HSO/or HSO Designee must see that access for emergency equipment is provided and that all combustion apparatus has been shut down once the alarm been sounded. Once the safety of all personnel established the Field Operations Leader will call the Passaic and or Harding Townships Police Dept. and other emergency response groups will be notified by telephone of the emergency.

# 15.3 Potential or Actual Fire or Explosion

Immediate evacuation of site (air horn will sound for 10 second intervals) notify local fire and police department, and other appropriate emergency response groups if LEL values are above 25% in the work zone or if an actual fire or explosion has taken place.

Passaic Township (White Bridge Road Site, New Vernon Road Site and Millington Site)

Fire Dept. - (201) 647-1800 Police Dept. - (201) 647-1800

Harding Township (Great Swamp Site)

Fire Dept. - (201) 455-0500 Police Dept. - (201) 455-0500

# 15.4 Environmental Incident (spread or release of contamination)

Control or stop spread of contamination if possible. Notify US Coast Guard Response Center, then local authorities of possible evacuation of immediate area. Notify Site Manager, CHSS Regional Manager, and EPA emergency response groups. Other appropriate response groups will be notified as appropriate.

# 15.5 Personnel Injury

Emergency first aid shall be applied onsite as deemed necessary. Then, decontaminate and transport the individual to nearest medical facility if needed. The HSO will supply medical data sheets to appropriate medical personnel and complete the incident report designated in HS-1.12.

Hospital - (201) 540-5000

Rescue - Passaic Township (White Bridge Road Site, New Vernon Road Site and Millington Site) (201) 647-1800

Harding Township (Great Swamp Site) (201) 455-0500

The ambulance/rescue squad shall be contacted for transport as necessary in an emergency. However, since some situations may require transport of an injured party by other means, a hospital route must be firmly identified. During the initial reconnaissance a primary hospital and back-up facility shall be located and route located to and from site with details of the route delineated. A hospital route location map shall also be provided in the HASP as well as conspicuously posted on site.

# 15.6 Hospital

Morristown Memorial Hospital 100 Madison Avenue Morristown, New Jersey 07960 (201) 540-5000

#### 15.7 Hospital Routes

#### Millington Site (see figures 2 & 3):

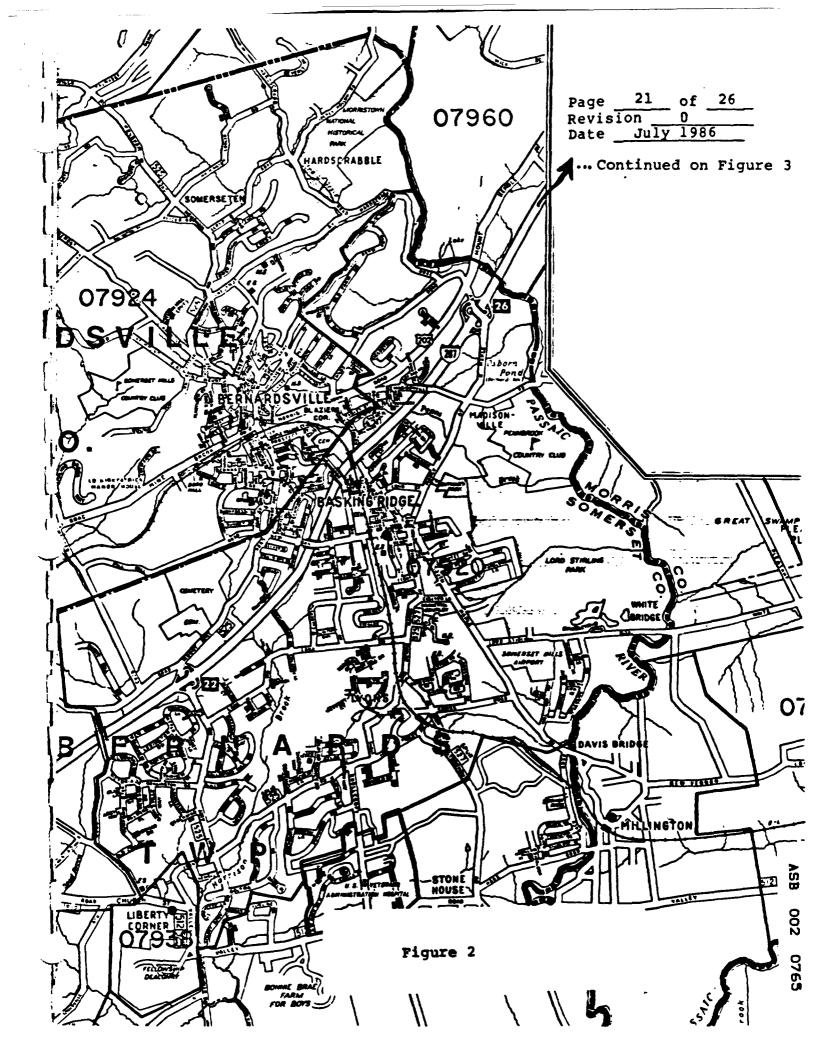
From the site traval west on Haas Road crossing over the Passaic River to the intersection of Pond Hill Road. Turn right onto Pond Hill Road and proceed until it ends at the intersection of South Maple Avenue. Turn left onto South Maple Avenue and proceed to the intersection of Oak Street, North and South Finley Avenues and North and South Maple Avenues. Bear to the right at this intersection to proceed on North Maple Avenue. Travel on North Maple Avenue to the intersection of Route 287. Travel north on Route 287 to Morristown. Exit Route 287 at Route 24 east, Madison Avenue. The hospital is located on the left hand side of Madison Avenue. Pollow the signs to the emergency room.

# New Vernon Road Site and White Bridge Road Site (see figure 4):

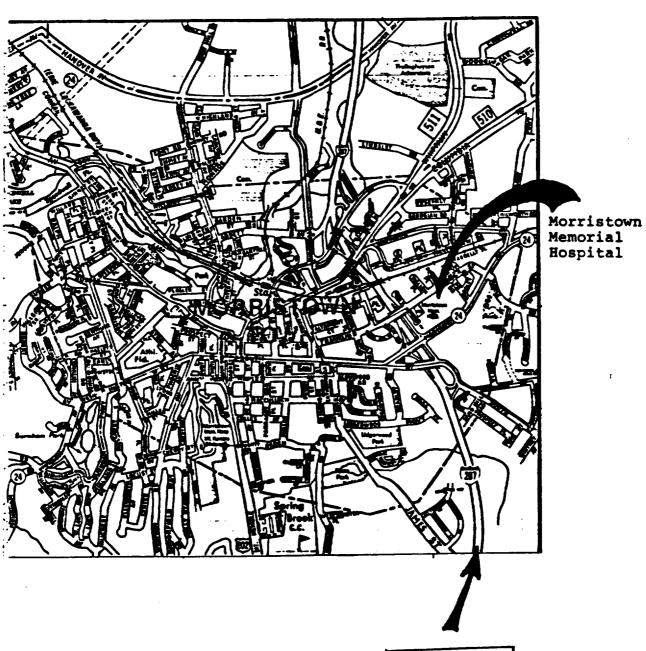
From the site travel north on New Vernon Road. New Vernon Road changes its name to Long Hill Road at the Harding Township Line. Travel on Long Hill Road to the intersection of Lee's Hill (Logansville Road) Road. Turn right onto Lee's Hill Road and proceed on Lee's Hill Road to the second right turn, Blue Mill Road. Turn right onto Blue Mill Road and proceed to the intersection of James Street and Featherbed Lane. Turn left onto James Street and proceed to Route 287. Travel north on Route 287 to Morristown. Exit Route 287 at Route 24 east, Madison Avenue. The hospital is located on the left hand side of Madison Avenue. Follow the signs to the emergency room.

#### Great Swamp Site (see figure 4):

From the site travel north on Long Hill Road to the intersection of Lee's Hill (Logansville Road) Road. Turn right onto Lee's Hill Road and proceed to the second right turn, Blue Mill Road. Turn right onto Blue Mill Road and proceed to the intersection of James Street and Featherbed Lane. Turn left onto James Street and proceed to Route 287. Travel north on Route 287 to Morristown. Exit Route 287 at Route 24 east, Madison Avenue. The hospital is located on the left hand side of Madison Avenue. Follow the signs to the emergency room.



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From Figure 2

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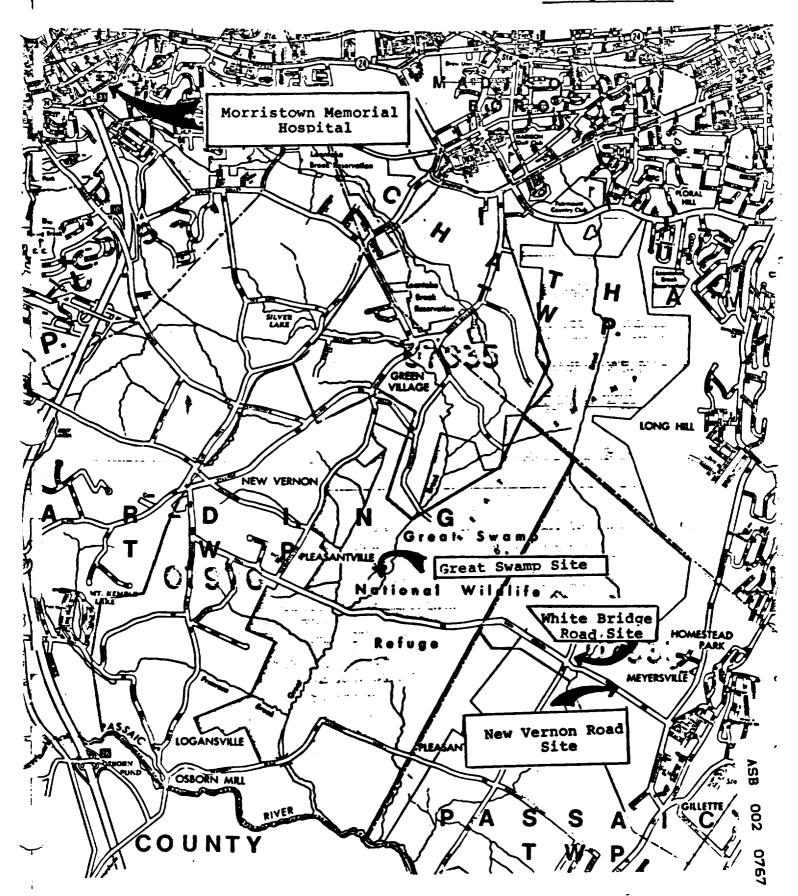


Figure 4

# 15.6 Overt Personnel Exposure

Generic first aid procedures are in this section. response includes:

SKIN CONTACT:

Use copious amounts of soap and water. Wash/rinse affected area thoroughly then provide appropriate medical attention. Eyewash and emergency shower or drench system will be provided onsite at the CRZ and/or Support Zone as appropriate. Eyes should be rinsed for 15 minutes

upon chemical contamination.

INHALATION:

Move to fresh air and, if necessary,

decon/transport to hospital.

INGESTION:

Decontamination and transport to emergency medical facility.

POISON CONTROL:

1-800-962-1253.

PUNCTURE WOUND

OR LACERATION:

Decontaminate and transport to emergency medical facility. HSO will provide medical data sheets to medical personnel as requested (see Section XVI).

Hospital - (201) 540-5000

- Passaic Township - (White Bridge Road Site, New Rescue Vernon Road Site, and Millington Site) (201) 647-1800

Harding Township - (Great Swamp Site) (201) 455-0500

#### 15.7 Adverse Weather Conditions

In the event of adverse weather conditions, the HSO will determine if work can continue without sacrificing the health and safety of all field workers. Some of the items to be considered prior to determining if work should continue are:

- Potential for heat stress and heat-related injuries
- Potential for cold stress and cold related injuries 0
- Treacherous weather-related working conditions 0
- Limited visibility 0
- Potential for electrical storms

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SECTION XVI: MEDICAL DATA SHEET

This brief Medical Data Sheet will be completed by all on-site personnel and will be kept in the Support Zone during the conduct of site operations. It is in no way a substitute for the Medical Surveillance Program requirements consistent with the Ebasco Corporate Health and Safety Program for Hazardous Waste Sits. This data sheet will accompany any personnel when medical assistance is required or if transport to hospital facilities is required. If more information is required use the back of this sheet.

Project				
Address				
	Height			
Whom to co	ntact in case of emergenc	:y:	·	
Address an	d telephone			
List medic	ation taken regularly		······	
Particular	Sensitivities	· · · · · · · · · · · · · · · · · · ·		
	Checklist of Previous Rec			
Hazardous	Chemicals	<del>-</del>	·	
		<del></del>		
Name of Pe	rsonal Physician	·	Telephone	
Blood Type				

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SECTION XVII: FIELD TEAM REVIEW

I have read and reviewed the Site-Specific Health and Safety Plan and understand the information contained therein and will comply.

Name:		 <del> </del>			_
Date:				 -	
Site/E	roject: _	 	 		